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Vandervort(10) **Pub. No.: US 2017/0237569 A1**(43) **Pub. Date: Aug. 17, 2017**(54) **SECURE REVISIONING AUDITING SYSTEM
FOR ELECTRONIC DOCUMENT FILES**(52) **U.S. CL.**CPC *H04L 9/3247* (2013.01); *H04L 63/061*
(2013.01); *H04L 63/0435* (2013.01)(71) Applicant: **Xerox Corporation**, Norwalk, CT (US)

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ABSTRACT(72) Inventor: **David R. Vandervort**, Walworth, NY
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Methods and systems for providing secure recording of revisions made to electronic documents, using secure methods to validate the recorded changes, are disclosed. An electronic device making a change to an electronic document can transmit the change to the network. An audit log chain is residing on the network and shared among all the nodes on the network. A node on the network can verify a change of document made by other nodes and add a new block to the chain using one-way hashes, making the chain resistant to tampering. If an invalid block is detected, the system can send an auditing alert to the network. The audit log can be strongly resistant to tampering, providing reliable evidence for use in audit compliance, investigations, and business or court record keeping.

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